

Abstract

An interferometer system comprises a reference surface, a
5 support for an object providing an object surface, a
radiation source for emitting radiation of an adjustable
frequency onto the reference surface and the object
surface, a position-sensitive radiation detector, a
controller for adjusting a plurality of different
10 frequencies of the radiation emitted by the radiation
source, and an integrator for averaging the interference
patterns superposed on the radiation detector at different
frequencies. Moreover, there is provided a method for
recording an interferogram, a method for providing an
15 object with a target surface as well as a method for
manufacturing an object with a target surface.